

PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,570

DATE: 01/14/2002

TIME: 07:39:10

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3 <110> APPLICANT: DONALDSON, IAIN ALASDAIR
 4 RASMUSSEN, THOMAS BRUUN
 6 <120> TITLE OF INVENTION: PROMOTER
 8 <130> FILE REFERENCE: 078883/0139
 10 <140> CURRENT APPLICATION NUMBER: US/10/009,570
 11 <141> CURRENT FILING DATE: 2001-12-12
 13 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02641
 14 <151> PRIOR FILING DATE: 2000-06-15
 16 <150> PRIOR APPLICATION NUMBER: GB 9914210.1
 17 <151> PRIOR FILING DATE: 1999-06-17
 19 <160> NUMBER OF SEQ ID NOS: 43
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 26 <213> ORGANISM: Artificial Sequence
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 41 gttgcattgt caaccgtagt acatctgaaa aatgaagtgt taaatacctt gagaagacct 540
 42 tcatggaagc atgcttcgag gcgattagct aagaaaaaaa aaataaatgt acttttcgaa 600
 43 acttaatttt ggagtttagat tttaggggtg ttcacatcga gtgtattttc tactatttga 660
 44 gtttaaacgg ctaatagtca gatataaaat tttatctata gatcatttat aaatcatttt 720
 45 tagttgcttc gttcattttt ctaccactta tcaaccatag ctcaactgat caattgacaa 780
 46 taaaagttac taaacgacat cgtctcatc acacccaacg ctacccgatg ggtgcctctc 840
 47 gaccacgagt ttgacatttg tgcaacatat atgcgtgcga tgaacatcta ctgatgcgcc 900
 48 atgcgaattt tagcgttcgt tcatgacgct tccaacggca cagaggtctg gcagcagcat 960
 49 gcattgcatg ctcctgtgaa aacaaaaaag gttactggta aatgacatgc tgcgttagct 1020
 50 agtttagcga atgcaaggcc catgcattat caatgctatg caacaagtat agtaccagca 1080
 51 tgtatggtag ccagctaaact aatctatcag cagaggcagc aagctcgtgc atggtgtgat 1140
 52 gcacttctct ccagtaatct agtggtaatt ttcacccaaa gcggttgcctc tatggacagt 1200
 53 aattagtaat attaccaagg ttcaacaatc cgttacctga ccaataacta ctacagaaatg 1260
 54 gtaactctgg ttttcgttaa aaccgttggg aaaccagcaa aaatagacaa aatttgtaaa 1320
 55 aattttaaat ttttagtttt tttttaactt agccgggaaa ccttgaagtt tgtgctgtcg 1380
 56 agctgtcctg ggaaggacgg ttttggttgg gattgtgaac cctggttact gcacttcatt 1440
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 58 cctgaagcct ttacgacccc cataccggcg ttgtgcaaa cctgccaaag aagagcagca 1560
 59 gaaacagggt tcattttgtg gtggaaagcc aagtaaagta aacagaagat ggaagatagt 1620

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60 gagqaccagg gaggaggca gggacacat ggcacagcc tccctgcaca ttttcgtga 1680
61 taaatacaag tggatgcat gctctccag catccatgg tctctgctc tgttcacca 1740
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68 <213> ORGANISM: Artificial Sequence

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71 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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74 <400> SEQUENCE: 2

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77 ttaattctctg aattacagta gggacttctc tgagatctct ggattagtgg ggggtgctaa 180
78 atttttttct ggttgcatca gcttgggttt ctgggattgg tgtgggttct tgcctgaat 240
79 tttgtttcag aatgtcgatt tgttttgtgt ttgcctctg aaattgagag tagctatgat 300
80 ccaccagca cagaactgca ggtccctgcc tgcggcagc atatacagga catgccattt 360
81 tgcgaagctct gggttatgg tttctctttt ggagttcttc ttcttgcatg atctgtgttc 420
82 tctaacaagg aagcaagatt tagcaacttt attcagagac aaaaaagga tctggcaacc 480
83 tttgttttct gttttatcct actegtaaag attgttattt aagcaaaaat ttccaaaag 540
84 ttttaaatat aatttccatg atgtgccact ctcattgctc tgaacctggc actcattatg 600
85 ggtctctcag aagtgtgta gctaagtca ctaacttttt gtatctttgt tctagtctt 660
86 gttttttatg atgcttatcc ctttgtgctt tccatgtttg atgtccaaat gtcattgcaa 720
87 tttttttgac ttctagttag ggttttagta cttttttgtt agataagtac atccaaattc 780
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95 <213> ORGANISM: Artificial Sequence

97 <220> FEATURE:

98 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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104 ttatgggag gaggaagtag aagattgtag ccaagaaaaa aacaaaaaca aacacaccgc 180
105 cactggcag gcatgcatct taggtcgcca cattgagagg tgggcagtag acgagttacc 240
106 ctacacaact gcttcttcag tgagctagct gcattgtctg ttctgcattt acattgcagg 300
107 caqcaagctag caacagtttg caggaacaat cgataatcca ttgtgtcagg gaggaacatg 360
108 qaqaataaac ggggtggag acgaacggga gcagctgtac cgtacgtttc tgaagctga 420
109 acccatctgc gaaatccgca gattgggttg ttcaattcca acttgacgtc cttcagattg 480
110 gttgcattgt caaccgtagt acatctgaaa aatgaagtgt taaatacctt gagaagacct 540
111 tcatggaagc atgctgcag gcgattagct aagaaaaaaa aaataaatgt acttttcgaa 600
112 acttaatttt ggagttagat tttagggtgt ttccatcgta gtgtatttct tactattgca 660
113 gtttaaaccc ctaatagtca gatataaaat tttatctata gatcatttat aaatcatttt 720
114 tagttgcttc gttcattttt ctaccactta tcaaccatag ctcaactgat caattgacaa 780
115 taaaaqttac taaacgacat cgtcctcac acaccaacg ctaccgatg ggtgcctctc 840
116 gaccacagat ttgcaacttg tgcaacatat atgctgtgca tgaacatcta ctgatgcgcc 900

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119 agtttagcaga atgcaaggcc catgcatacg caatgctatg caacaagtat agtaccagca 1080
120 tgtatggtag ccagctaaet aatctatcag cagaggcagc aagctcgtgc atggtgtgat 1140
121 gcacttctct ccagtaactt agtgytaatt ttcaaccaaa gcgttgctca tatggacagt 1200
122 aattagtaat attacaagg ttcaaatcc cgttaacctga ccaaatacta ctacgaatg 1260
123 gtatctctgg ttttcgttaa aacggttgg aaaccagcaa aaatagacaa aatttgtaaa 1320
124 aatttttaaat ttttagtttt tttttaact agccgggaaa ccttgaagtt tgtgctgtcg 1380
125 agctgtcctg ggaaggacgg ttttggttg gattgtgaac cctggttact gcacttcatt 1440
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127 gctgaagctt ttaagatccc cataccgccc ttgctgcaaa cctgccaga aagagcagca 1560
128 gaaacagggtg tcattttgtg gtggaaagcc aagtaaagta aacagaagat ggaagatagt 1620
129 gaggaccagg gagtgaggca ggggacacat ggcccacgcc tccctgcaca tttctgtgta 1680
130 taaatacagg tggatgcata gctctcccag catccatcgg ttctctgctc tgttcacca 1740
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140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic exon
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144 <400> SEQUENCE: 4
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146 ttcctctctc tctcttcag tgcaag 86
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150 <211> LENGTH: 31
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic exon
156 nucleotide sequence
158 <400> SEQUENCE: 5
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167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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174 ttatgggacg gaggaagtag aagattgtag ccaagaaaaa aacaaaaaca aacacaccgc 180
175 cactgggcag gcattgcatt taagtcagca cattgagagg tggcagtag acgaattacc 240
176 ctacacaact gcttcttcag tgagctagct gcattgtctg ttctgcattt acattqcaag 300
177 caqcaqctag caacagtttg caggaacaat cgataatcca ttgtgtcagg gaggaacatg 360

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179 acccatctgc gaaatccgca gattggtttg ttcaattcca acttgcagtc cttcagattg 480
180 gttgcatgtt caaccgtagt acatctgaaa aatgaagtgt taaatacctt gagaagacct 540
181 tcatggaagc atgectgcag gcgattagct aagaaaaaaa aaataaatgt acttttcgaa 600
182 acttaatttt ggagtttagt tttagggtgt ttccatcgta gtgtattttc tactatttgc 660
183 gtttaaacgg ctaatagtca gatataaaat tttatctata gatcatttat aaatcatttt 720
184 tagttgcttc gttcattttt ctaccactta tcaaccatag ctcaactgat caattgacaa 780
185 taaaagttac taaacgacat cgtcctcac acaccaacg ctcaccgatg ggtgectctc 840
186 gaccacgagt ttagcacttg tgcaacatat atgctgctga tgaacatcta ctgatgcgcc 900
187 atgcgaattt tagcgttctt tcatgacgct tccaacggca cagaggctga gcagcagcat 960
188 gcatgcatgg ctcttggtga aacaaaaaag gttactggta aatgacatgc tgcgttagct 1020
189 agtttagcaga atgcaaggcc catgcatatg caatgctatg caacaagtat agtaccagca 1080
190 tgtatggtag ccagctaaact aatctatcag cagaggcagc aagctcgtgc atgggtgtgat 1140
191 gcaattctct ccagtaattc agtggttaatt tccacccaaa gcgttgctca tatggacagt 1200
192 aatttagtaat attaccaagg ttcacaatcc cgttacctga ccaaatacta ctcaagaaatg 1260
193 gtatctcttg ttttcgttaa aaccgttggg aaaccagcaa aaatagacaa aatttgtcaa 1320
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198 gaaacagggt tcattttgtg gtggaaagcc aagtaaagta aacagaagat ggaagatagt 1620
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204 <211> LENGTH: 2668

205 <212> TYPE: DNA

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208 <220> FEATURE:

209 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

210 promoter sequence of the present invention

212 <400> SEQUENCE: 7

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215 ttatgggacg gaggaagtag aagattgtag ccaagaaaaa aacaaaaaca aacacacggc 180
216 cactggcag gcatgcactt taggtcggca cattgagagg tcggcagtag acgagttacc 240
217 ctacacaact gcttcttcag tgagctagct gcattgtctg ttctgcattt acattgcagg 300
218 cagcagctag caacagtttg caggaaacaat cgataatcca ttgtgtcagg gaggaacatg 360
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220 acccatctgc gaaatccgca gattggtttg ttcaattcca acttgcagtc cttcagattg 480
221 gttgcatgtt caaccgtagt acatctgaaa aatgaagtgt taaatacctt gagaagacct 540
222 tcatggaagc atgectgcag gcgattagct aagaaaaaaa aaataaatgt acttttcgaa 600
223 acttaatttt ggagtttagt tttagggtgt ttccatcgta gtgtattttc tactatttgc 660
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226 taaaagttac taaacgacat cgtcctcac acaccaacg ctcaccgatg ggtgectctc 840
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229 gcatgcatgg ctcttggtga aacaaaaaag gttactggta aatgacatgc tgcgttagct 1020
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232 gcacttctct ccagtaactt agtggttaatt ttcacccaaa gegtltgtca tatggacagt 1200
233 aattagtaat attaccaagg ttcacaatcc cgttacctga ccaaatacta ctacgaatg 1260
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235 aatttttaaat tttagttttt tttttaactt agccgggaaa ccttgaagtt tgtgctgtcg 1380
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238 gctgaagctt ttacgatccc cataccgcgg ttgctgcaaa cctgccaaaga aagagcagca 1560
239 gaaacagggtg tcattttgtg gtggaaagcc aagtaaagta aacagaagat ggaagatagt 1620
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244 aggattgttg ctatggatgc atgatgttat ggttaatctc tgaattacag tagggacttc 1920
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266 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

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274 <212> TYPE: DNA

275 <213> ORGANISM: Artificial Sequence

277 <220> FEATURE:

278 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

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287 <213> ORGANISM: Artificial Sequence

289 <220> FEATURE:

290 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date